

801i
Mic/Line Mixer
Operation Manual

TABLE OF CONTENTS

Introduction	pg. 1
Front Panel	pg. 2
Rear Panel	pg. 3
Remote Control	pg. 4
Specifications & Block Diagram	pg. 5
Warranty	pg. 6

INTRODUCTION

The 801i is a single rack-space mixer, with eight mic/line inputs and one auxiliary line input. Each mic/line channel uses a differentially balanced, discrete transistor preamplifier for low noise and low distortion performance. Special features, including a limiter and remote level control, make the 801i extremely versatile. The 801i mixer is dependable, easy to install, simple to operate, and carries a five-year warranty.

801i features include:

- ◆ eight differential balanced mic/line inputs & one aux line input
- ◆ discrete transistor mic/line preamps for low noise & distortion
- ◆ +24 volt phantom power selectable on each mic/line input
- ◆ aux input switch selectable for balanced or stereo summing
- ◆ aux input 'auto-ducking' switch selectable on channels 1~8
- ◆ front panel trim and rear panel pad switch on each channel
- ◆ +10dB 'peak' LED indicator on each channel for easy set-up
- ◆ high-pass 'rumble' filter switch selectable on each channel
- ◆ mic/line & aux inputs on plug-in barrier strip connectors
- ◆ unbalanced direct output terminal on each input channel
- ◆ balanced main output on plug-in barrier strip connector
- ◆ main output limiter with threshold control and LED indicator
- ◆ main out Bass & Treble control with rear panel bypass switch
- ◆ -20dB signal present & power LED indicators at main output
- ◆ channel 1 automatic override assignable on other channels
- ◆ optional remote control of main out via external level control
- ◆ stack in & slave switch to add inputs by linking multiple units
- ◆ covered by Biamp Systems' five-year warranty
- ◆ CE marked and UL / C-UL listed power source

FRONT PANEL



+10 Indicator (Channels 1~8 & Aux): These red LEDs will light whenever channel signal levels reach +10dB (8dB below clipping). Use this feature to aid in adjusting the Trim controls (see below).

Trim (Channels 1~8): These screw-driver adjustable controls set the channel gain (0~60dB) to compensate for different input signal levels. For best performance, adjust these controls so the channel +10 indicators flash only on occasional peaks. If input signal exceeds the normal operating range of the Trim control, assign the rear panel Pad switch (see DIP switches on next page).

Level (Channels 1~8 & Aux): These controls adjust the amount of signal sent from the individual input channels to the mixer output section. Optimum Level settings are near the 12 o'clock position (unity gain).

Bass: This control provides low-frequency tonal adjustment (± 10 dB @ 100Hz) for signals at Main Patch & Main Output.

Treble: This control provides high-frequency tonal adjustment (± 10 dB @ 10kHz) for signals at Main Patch & Main Output.

-20 Indicator: This red LED will light whenever signal levels reach -20dB (signal present) at Main Output.

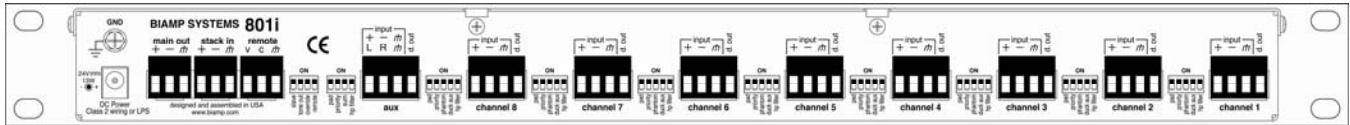
Master: This control adjusts the level of overall signal sent to Main Output. Optimum Master settings are near the 12 o'clock position (unity gain) or below.

Threshold: A limiter is provided at Main Output to help eliminate unwanted peaks in signal level. This screw-driver adjustable control sets the level at which the limiter will be activated. For most applications, set Threshold so the limiter is activated only by occasional peaks. Counter-clockwise adjustment lowers Threshold, increasing the amount of limiting. Clockwise adjustment raises Threshold, decreasing the amount of limiting. Threshold is factory set fully clockwise, effectively removing the limiter from operation.

Limit: This red LED will light whenever signal levels exceed the threshold, thereby activating the limiter.

On Indicator: When the power transformer is plugged in, and AC power is applied to the 801i, the red On indicator remains lit.

REAR PANEL



DC Power Supply: The included power supply module provides 24 Volt DC power to the mixer. It is connected to the DC Power Jack on the rear side of the mixer. To ensure compatibility, only use a Biamp Systems supplied power supply.

Main Output: This plug-in barrier strip provides the balanced line-level Main Output from the mixer. For balanced connection, wire high (+), low (-), and ground (▼). For unbalanced connection, wire high (+) and ground (▼), leaving (-) unconnected. Signal level will be reduced by 6dB when output is unbalanced. Main Output level is affected by the front panel Master control, as well as by remote control (see Remote below).

Stack In: This plug-in barrier strip provides the balanced line-level Stack In to the mixer. Signal entering here is combined with signals from the input channels, and is then sent to the Main Output section. When using multiple 801i mixers within a system, connect Main Output of one mixer to Stack In of the next mixer, and so forth. All mixers except the final 801i should be assigned as 'slaves' (see Master DIP Switches below). For balanced connection, wire high (+), low (-), and ground (▼). For unbalanced connection, wire high (+) and ground to both (▼) & (-).

Remote: This plug-in barrier strip provides connection for an optional remote master level control (model RP-L1) (see Remote Control on pg. 4). An external potentiometer (5k-50k ohm linear taper) or external ramp voltage (0~+10VDC) can also be used. Potentiometers are wired high (V), wiper (C), and low (▼). Ramp voltage is wired positive (C), and ground (▼). The Remote port must be enabled before remote master level control is possible (see Master DIP switches below).

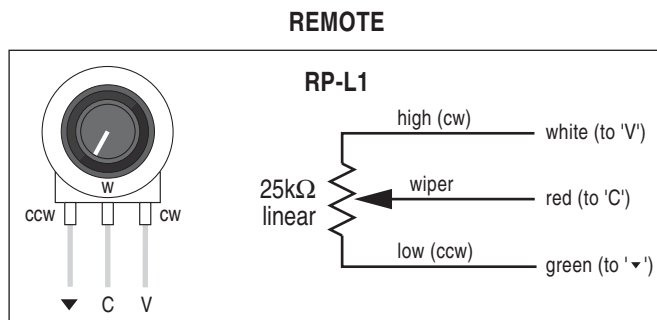
Input & Direct Out (Channels 1~8 & Aux): These plug-in barrier strips provide the balanced mic/line Inputs to the mixer (*Channels 1~8 only*). For balanced connection, wire high (+), low (-), and ground (▼). For unbalanced connection, wire high (+) and ground to both (▼) & (-). Phantom power (+24VDC) is available for condenser microphones (see DIP Switches below). The Aux input accepts either balanced mono line input or unbalanced stereo line input (see DIP switches below). Aux input cannot accept mic input signal, and does not provide phantom power. Unbalanced 'pre-fader' Direct Outputs are available on Channels 1~8 & Aux, using the (d. out) & (▼) terminals.

Master DIP Switches: These switches assign functions to the mixer as a whole (when pushed up). Slave assigns the mixer as an expander to a 'master' mixer. Tone Out bypasses the front panel tone controls (Bass & Treble). Override allows automatic muting of other inputs when signal is present in Channel 1. Remote allows remote control of Main Output level, by enabling the Remote terminals (see above).

DIP Switches (Channels 1~8 & Aux): These switches assign functions to the individual inputs (when pushed up). Pad attenuates channel signal -18dB (-10dB at Aux) for line input. Priority disables Channel 1 Override muting for that channel. Phantom (*Channels 1~8 only*) turns on phantom power (for condenser mics). Duck Aux (*Channels 1~8 only*) allows channel signal presence to activate -15dB attenuation at Aux input (ducking). HP Filter enables a high-pass filter on the input (6dB/octave @ 170Hz). Sum (*Aux only*) converts Aux from standard balanced input to stereo (L/R) summing input.

Remote Control

Remote: The output level of an 801i mixer can be remotely controlled via an external potentiometer (5k~50k ohm linear taper) or ramp control voltage (0~+10VDC). An RP-L1 remote control panel is available as an option (see diagram below). Potentiometers are wired high (V), wiper (C), and low (▼). Ramp voltage is wired positive (C) and ground(▼). The Remote port of the 801i mixer must be enabled before remote control of output level is possible (see Master DIP Switches on pg. 3). Remote control does not change physical settings on the 801i mixer, it only attenuates from the maximum level settings established at the mixer.

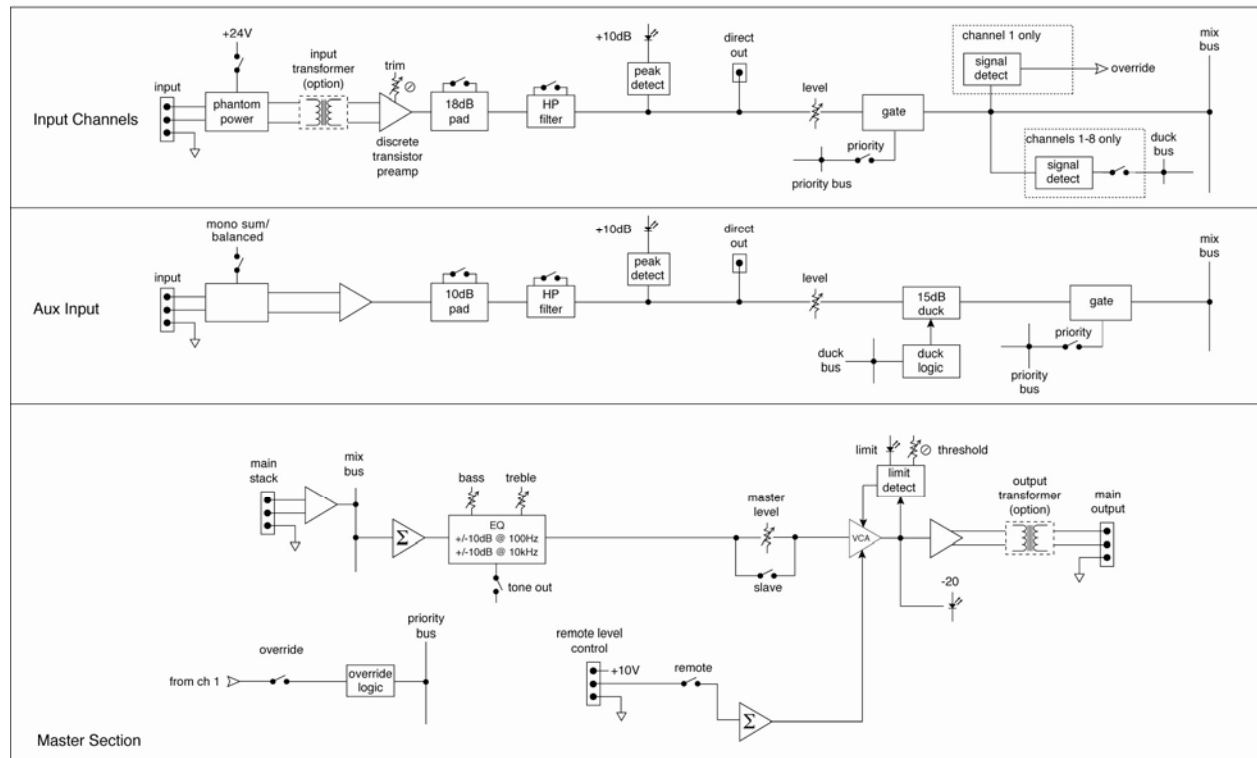


SPECIFICATIONS & BLOCK DIAGRAM

801i SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-1dB	Maximum Output:	
THD+Noise (20Hz~20kHz @ +4dBu):	< 0.08%	main output	+24dBu
Equivalent Input Noise (20Hz~20kHz, 150Ω term.):	-123dBu	channel direct	+18dBu
Output Noise (20Hz~20kHz):		Input Impedance:	
master level control down	< -86dB	mic/line inputs (balanced)	5.1k ohms
master level & one channel at nominal	< -78dB	stack input (balanced)	40k ohms
Maximum Gain:		Maximum Input:	
mic input to main output	85dB	mic/line input	+20dBu
stack input to main output	9dB	stack input	+24dBu
Output Tone Controls:		Crosstalk (channel-to-channel @ 1kHz):	-60dB
Bass & Treble	±10dB @ 100Hz & 10kHz	Power Consumption (115/230VAC 50/60Hz):	< 13 watts
Channel High-Pass Filters:		Dimensions:	
frequency	-3dB @ 170Hz	height (1 rack space)	1.75 inches (44mm)
slope	6dB/octave	width	19 inches (483mm)
Output Limiter:		depth	7 inches (178mm)
attack time	1~2 mS (program dependent)	Weight:	6 lbs. (2.72kg)
release time	100~500 mS (program dependent)	Compliance:	AES48-2005 Grounding & EMC practices
threshold range	-4dBu ~ +24dBu		EU Directive 2002/95/EC, RoHS directive
Output Impedance:			CE marked
main output (balanced)	200 ohms		UL listed power source
channel direct (unbalanced)	100 ohms		

801i BLOCK DIAGRAM



WARRANTY

BIAMP SYSTEMS IS PLEASED TO EXTEND THE FOLLOWING 5-YEAR LIMITED WARRANTY TO THE ORIGINAL PURCHASER OF THE PROFESSIONAL SOUND EQUIPMENT DESCRIBED IN THIS MANUAL

1. BIAMP Systems warrants to the original purchaser of new products that the product will be free from defects in material and workmanship for a period of 5 YEARS from the date of purchase from an authorized BIAMP Systems dealer, subject to the terms and conditions set forth below.
2. If you notify BIAMP during the warranty period that a BIAMP Systems product fails to comply with the warranty, BIAMP Systems will repair or replace, at BIAMP Systems' option, the nonconforming product. As a condition to receiving the benefits of this warranty, you must provide BIAMP Systems with documentation that establishes that you were the original purchaser of the products. Such evidence may consist of your sales receipt from an authorized BIAMP Systems dealer. Transportation and insurance charges to and from the BIAMP Systems factory for warranty service shall be your responsibility.
3. This warranty will be VOID if the serial number has been removed or defaced; or if the product has been altered, subjected to damage, abuse or rental usage, repaired by any person not authorized by BIAMP Systems to make repairs; or installed in any manner that does not comply with BIAMP Systems' recommendations.
4. Electro-mechanical fans, electrolytic capacitors, and normal wear and tear of items such as paint, knobs, handles, and covers are not covered under this warranty.
5. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. BIAMP SYSTEMS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
6. The remedies set forth herein shall be the purchaser's sole and exclusive remedies with respect to any defective product.
7. No agent, employee, distributor or dealer of Biamp Systems is authorized to modify this warranty or to make additional warranties on behalf of Biamp Systems. statements, representations or warranties made by any dealer do not constitute warranties by Biamp Systems. Biamp Systems shall not be responsible or liable for any statement, representation or warranty made by any dealer or other person.
8. No action for breach of this warranty may be commenced more than one year after the expiration of this warranty.
9. BIAMP SYSTEMS SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS OR LOSS OF USE ARISING OUT OF THE PURCHASE, SALE, OR USE OF THE PRODUCTS, EVEN IF BIAMP SYSTEMS WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Biamp Systems
9300 S.W. Gemini Drive
Beaverton, Oregon 97008
(503) 641-7287



EC Declaration of Conformity

Biamp Systems Corporation, as manufacturer having sole responsibility, hereby declares that the following described product complies with the applicable provisions of the DIRECTIVES below except as noted herein. Any alterations to the product not agreed upon and directed by Biamp Systems Corporation will invalidate this declaration.

Product Models: 301, 601, 801i

Product Description: Mic/Line Mixers

Applicable EC Directives:

Applicable Harmonized Standards:

LVD Directive (2006/95/EC) Safety EN 60065:2002

EMC Directive (2004/108/EC) Emissions EN 55103-1:1996, Environment E2
Immunity EN 55103-2:1996

Special Considerations for Product Environment or Compliance:

Use only Biamp Systems supplied 24 VDC External Power Supply Adaptor.

Shielded cabling must be used for system connections.

Technical Construction File, Location and Contact:

Biamp Systems, Inc.	phone:	(503) 641.7287
9300 S.W. Gemini Drive	fax:	(503) 626.0281
Beaverton, OR USA 97008	e-mail:	biamp@biamp.com

Authorized Representative: Larry Copley, Compliance Engineer

Authorized Signature:

Issued: March, 2010

SAFETY INFORMATION

The words **WARNING** and **CAUTION** throughout the manual, and on the device, call attention to important safety information. These words have the following meanings.

WARNING: The related information alerts you to conditions that could result in serious injury or damage to property if the instructions are not followed properly.

CAUTION: The related information instructs you on how to prevent damage to the equipment or how to avoid conditions that could result in minor injury if proper steps are not followed.

Product labelling and the operation manual may use the internationally recognized symbols defined below to note safety messages.



The lightning flash with arrowhead symbol, enclosed within a triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure or at connection terminals that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation point, enclosed within a triangle, is intended to alert the user to important installation, operation, and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION: Installation of this apparatus should be made by a qualified installation person and should conform to all applicable local codes.



Modification and optional equipment information referenced in this manual is for use by qualified installation and service personnel only.



"INFORMACIÓN DE SEGURIDAD"

Las palabras **PELIGRO** (WARNING) y **PRECAUCIÓN** (CAUTION) a lo largo del manual y en el dispositivo (sistema), llaman la atención acerca de una importante información de seguridad. Estas palabras tienen los siguientes significados:

PELIGRO : la información relata las condiciones en que podría ser dañada seriamente la propiedad si no se siguen adecuadamente las instrucciones.

PRECAUCIÓN : la información que se relata le instruye en cómo prevenir daños al equipo o como evitar condiciones que podrían resultar en perjuicio menor si los pasos adecuados no son seguidos correctamente.

El etiquetado del producto y el manual de operación pueden hacer uso de los símbolos reconocidos internacionalmente y cuyos mensajes están definidos a continuación para modificar mensajes de seguridad:



El símbolo del rayo encerrado en un triángulo pretende alertar al usuario de la presencia de un peligroso voltaje no aislado, dentro de la caja del aparato o a un terminal de conexión y que podría ser de suficiente magnitud como para constituir un grave riesgo de descarga eléctrica.



El punto de exclamación dentro de un triángulo pretende alertar al usuario de la importancia de las instrucciones de instalación, operación y mantenimiento (servicio) que acompañan al aparato.

PELIGRO : para reducir el riesgo de fuego o una descarga eléctrica, no exponer este aparato a la lluvia o la humedad.

PRECAUCIÓN : la instalación de este aparato debería hacerse por una persona cualificada en la instalación, y debería conformar todos los códigos locales aplicables.



La modificación y la información opcional del equipo referenciada en este manual es para ser utilizada únicamente por personal cualificado en instalación y servicio.



INFORMATION CONCERNANT VOTRE SECURITE

Les mots **WARNING** et **CAUTION** dans le manuel d'utilisation et sur les appareils attirent votre attention sur les plus importantes informations concernant votre sécurité. Ces mots ont la signification suivante:

WARNING: Ce mot vous indique les circonstances dans lesquelles vous pourriez être blessé ou endommager votre équipement si les instructions ne sont pas suivies correctement.

CAUTION: Ce mot vous indique comment éviter d'endommager votre matériel et comment éviter de vous blesser si vous ne suivez pas les instructions.

Vous trouverez peut-être les symboles suivants sur votre appareil ou dans le manuel d'utilisation.



L'éclair se terminant en flèche dans un triangle permet de prévenir l'utilisateur d'un voltage dangereux non isolé dans l'appareil ou d'une connexion d'une amplitude suffisante pour constituer un risque de choc électrique.



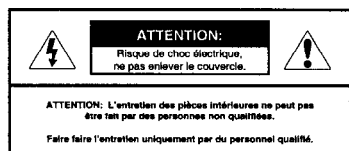
Le point d'exclamation dans un triangle permet de prévenir l'utilisateur des points importants concernant l'installation, le fonctionnement et l'entretien de l'appareil figurant dans le manuel d'utilisation.

WARNING: POUR REDUIRE LES RISQUES DE FEU OU DE CHOC ELECTRIQUE, NE PAS METTRE L'APPAREIL SOUS LA PLUIE OU DANS L'HUMIDITE.

CAUTION: L'installation de cet appareil doit être faite par un installateur qualifié et doit être en conformité avec toutes les lois locales en application.



Les informations concernant une modification ou un équipement en option dans le manuel doivent être effectués par du personnel qualifié.



INFORMAZIONI PER LA SICUREZZA

Le parole **AVVERTENZA** (WARNING) e **PRUDENZA** (CAUTION) poste sul manuale d'uso e sul apparato richiamano la vostra attenzione su delle importanti informazioni per la vostra sicurezza. Queste parole hanno il seguente significato.

AVVERTENZA: La suddetta indicazione vi avvisa sul rischio di incorrere in danni a cose o a persone, se le procedure d'uso e installazione non saranno seguite propriamente.

PRUDENZA: La suddetta indicazione vi istruisce su come prevenire e ridurre al minimo, il rischio di danni agli apparati e alle persone se le istruzioni saranno seguite propriamente.

Le apparecchiature e i manuali di istruzioni riporteranno la simbologia standard raffigurata qui sotto, accompagnate dalle relative informazioni per la sicurezza.



La simbologia con il fulmine all'interno di un triangolo, intende avvisare l'utente della presenza di alto voltaggio all'interno dell'apparecchio in questione, e che il suddetto apparecchio si alimenta attraverso una tensione di rete ad alto voltaggio e che dunque si potrebbe incorrere sul rischio di una possibile scossa elettrica.



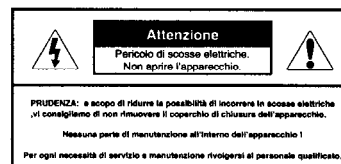
La simbologia con il punto esclamativo all'interno di un triangolo, intende avvisare l'utente di una serie di istruzioni contenute nel manuale d'uso riguardanti: operato, manutenzione e assistenza. Il suddetto manuale sarà a corredo dell'apparecchio.

AVVERTENZA: PER RIDURRE IL RISCHIO DI POSSIBILI INCENDI O SCOSSE ELETTRICHE, SCONSIGLIAMO DI ESPORRE L'APPARECCHIO ALLA PIOGGIA O ALL'UMIDITA'.

PRUDENZA: L'installazione di questo apparato dovrà essere effettuata solo da personale qualificato e il tipo di installazione dovrà essere in regola con le norme vigenti locali.



Modifiche e ulteriori informazioni specificate in questo manuale sono solamente riservate al personale qualificato all'installazione.



Sicherheitshinweise

Die Begriffe **WARNUNG** (engl. WARNING) und **ACHTUNG** (engl. CAUTION) in der Bedienungsanleitung und auf den Geräten machen auf wichtige Sicherheitsinformationen aufmerksam. Diese Begriffe haben die folgende Bedeutung:

WARNUNG: Der folgende Text warnt Sie vor ernsthaften Verletzungen oder Beschädigungen, die aus einer fehlerhaften Bedienung bzw. Handhabung des Gerätes resultieren können.

ACHTUNG: Der folgende Text informiert Sie über Bedienungshinweise zum Schutz Ihres Gerätes oder weist auf mögliche Schäden hin, wenn die Bedienungshinweise nicht beachtet werden.

Die Beschriftung der Geräte und die Bedienungsanleitungen weisen unter Umständen international bekannte Symbole auf, die die folgende Bedeutung haben:



Das Blitzsymbol im Dreieck warnt vor anliegender, nicht isolierter „gefährlicher Spannung“ im Inneren oder an den Anschlüssen des Gerätes. Die Berührung der unter Spannung stehenden Teile kann zu einem elektrischen Schock führen.



Das Rufzeichen im Dreieck macht auf wichtige Installations-, Bedienungs- und Servicehinweise in der zugehörigen Bedienungsanleitung aufmerksam.

WARNUNG: Zur Minderung des Risikos von Feuer und elektrischem Schock schützen Sie das Gerät vor Regen und Feuchtigkeit.

ACHTUNG: Die Installation des Gerätes sollte nur durch qualifiziertes Personal durchgeführt werden und muß den jeweiligen Bestimmungen entsprechen.



Die Modifikationen und die Informationen zu den optionalen Erweiterungen in der Bedienungsanleitung sind nur für qualifiziertes Personal bestimmt.

**ACHTUNG**

Risiko von elektrischem Schock
Gerät nicht öffnen

Achtung: Zur Minderung des Risikos von elektrischem Schock das Gerät nicht öffnen

Keine Bedienungselemente im Inneren des Gerätes

Service nur durch qualifiziertes Personal durchführen lassen

Sikkerhedsinformation

Ordene **ADVARSEL** (WARNING) og **FORSIGTIG** (CAUTION), brugt i henholdsvis brugervejledning og på selve produktet, indikerer, at vigtig information omkring sikkerhed følger. Ordene betyder følgende:

ADVARSEL: Den efterfølgende information advarer Dem om forhold, der kan føre til alvorlige ulykker og ejendomsskader, hvis ikke vejledningen følges.

FORSIGTIG: Den efterfølgende information vejleder Dem i, hvordan De undgår skade på produktet, samt undgår forhold der kan føre til mindre ulykker og ejendomsskader, hvis ikke vejledningen følges.

Produktetiketter og brugervejledning kan indeholde de internationalt anerkendte symboler der er vist nedenfor:



Trekanten med et lyn i midten har til hensigt at advare brugeren om, at produktet indeholder "farlig spænding", og at det derfor er forbundet med fare for elektrisk stød at åbne produktet.



Trekanten med udråbstegn har til hensigt at advare brugeren om, at vigtig information omkring installation, brug, service og vedligeholdelse af produktet er indeholdt i den medfølgende brugervejledning.

ADVARSEL: Med henblik på at reducere risikoen for brand eller elektrisk stød, må produktet ikke udsættes for regn eller fugt.

FORSIGTIG: Installation af dette produkt skal foretages af en autoriseret installatør og skal være i overensstemmelse med alle anvendelige lokale retningslinier.



Modifikationer samt alternativt udstyr beskrevet i denne brugervejledning er kun henvendt til kvalificerede installatører og servicepersonale.

**FORSIGTIG**

Fare for elektrisk stød
- må ikke åbnes.

FORSIGTIG: Med henblik på at reducere risikoen for elektrisk stød, må svaret ikke fjernes.

Indeholder ingen komponenter relevante for brugeren.

Anvend autoriseret servicepersonale ved alle serviceeftersøg.

VEILIGHEIDSINFORMATIE

De woorden **WAARSCHUWING** (WARNING) en **VOORZICHTIG** (CAUTION) welke in de handleiding en op het apparaat voorkomen, waarschuwen U voor belangrijke veiligheidsinformatie. Zij hebben de volgende betekenissen:

WAARSCHUWING: De betreffende informatie waarschuwt U voor omstandigheden die kunnen leiden tot defecten of beschadigingen aan apparaten als de instructies niet volledig worden opgevolgd.

VOORZICHTIG: De betreffende informatie instrueert U hoe U defecten aan apparatuur kunt voorkomen of hoe U omstandigheden kunt vermijden die kunnen resulteren in schade als de juiste stappen niet worden opgevolgd.

Produkt informatie en handleiding hanteren onderstaande internationaal erkende symbolen om veiligheidsinstructies aan te geven.



De bliksschicht in een driehoek wordt gebruikt om de gebruiker te attenderen op ongeïsoleerde "gevaarlijke spanning" in het apparaat of bij de aansluitklemmen, die het risico van een elektrische schok kunnen geven.



Het uitroepteken in een driehoek wordt gebruikt om de gebruiker te attenderen op belangrijke installatie, gebruiks- en onderhoudsinstructies in de beschrijving die bij het apparaat hoort.

WAARSCHUWING: OM HET RISICO VAN BRAND OF EEN ELECTRISCHE SCHOK TE VERMIDJEN DIENT U HET APPARAAT NIET AAN VOCHT BLOOT TE STELLEN.

VOORZICHTIG: Installatie van dit apparaat dient te geschieden door gekwalificeerd personeel en dient te geschieden conform de plaatselijke voorschriften.



Modificaties en aanvullende informatie waar in de handleiding naar wordt verwezen, dient alleen voor gebruik door gekwalificeerd personeel.

**VOORZICHTIG.**

Risico van elektrische schok.
Niet openen.

Waarschuwing: Om het risico van een elektrische schok te verminderen het apparaat niet openen.

Er zijn geen, door gebruiker, vervangbare onderdelen in dit apparaat.

Service overlaten aan gekwalificeerd service personeel.

TURVALLISUUSTIEDOTE

Sanat **VAROITUS** (WARNING) ja **HUOMIO** (CAUTION), jotka esiintyvät manuaalissa ja itse laitteessa, ilmoittavat tärkeästä turvallisuusinformaatiosta. Näillä sanoilla on seuraava merkitys:

VAROITUS: Yhteydessä oleva informaatio varoittaa olosuhteista, jotka saattavat johtaa vakaviin vammoihin tai laitteen vaurioitumiseen, mikäli ohjeita ei täysin noudateta.

HUOMIO: Yhteydessä oleva informaatio neuvoo, miten laitteen vaurioituminen voidaan ehkäistä tai miten voidaan välttää olosuhteita, jotka voivat johtaa lieviin vammoihin, mikäli ohjeita ei noudateta.

Tuotteessa tai käyttöohjeessa voidaan käyttää seuraavia alla määriteltyjä kansainvälisiä symboleja, jotka viittaavat turvallisuusinformaatioon.



Kolmion sisällä oleva nuolipäinen salama varoittaa käyttäjää laitteen sisällä tai liitännöissä olevasta eristämättömästä vaarallisesta jännitteestä, joka saattaa olla tarpeeksi suuri aiheuttaakseen sähköiskun vaaran.



Kolmion sisällä oleva huutomerkin tarkoituksena on ilmoittaa käyttäjälle tärkeistä asennusta, käyttöä tai huoltoa koskevista ohjeista laitteen mukana seuraavassa kirjallisuudessa.

VAROITUS: ÄLÄ ALTISTA LAITETTA SATEELLE TAI KOSTEUELLE TULIPALON JA SÄHKÖISKUN VAARAN VUOKSI.

HUOMIO: Laitteen asentaminen tulisi jättää ammattitaitoisen henkilön suoritettavaksi ja asennuksessa tulee noudattaa kaikkia paikallisia säännöksiä.



Tässä manuaalissa oleva informaatio, joka koskee muutostöitä ja lisälaitteita, on tarkoitettu vain ammattitaitoisten asennus- ja huoltohenkilöiden käyttöön.

**HUOMIO**

Sähköiskun vaara, älä avaa.

HUOMIO: ÄLÄ AVAA KANTTA SÄHKÖISKUN VAARAN VUOKSI

EI SISÄLLÄ KÄYTTÄJÄN HUOLLETTAVIA OSIA

JÄTÄ HUOLTO AMMATTITAITOISELLE HENKILÖKUNNALLE

SIKKERHETS INFORMASJON

Når ordene **ADVARSEL** (WARNING) og **VIKTIG** (CAUTION) blir brukt i manualen og på produktet, gjelder det informasjon som har med brukers sikkerhet å gjøre. Ordene har følgende mening:

ADVARSEL: (WARNING) Tilhørende informasjon viser til forhold som kan resultere i alvorlige skader eller ødeleggelser hvis anvisningene ikke følges nøye.

VIKTIG: (CAUTION) Tilhørende informasjon forteller deg hvordan du skal unngå feil på utstyret, eller unngå situasjoner som kan resultere i mindre skader.

Produkt merkingen og bruksanvisningen bruker internasjonale symboler for å merke punkter som er viktige for brukers sikkerhet.



Lynet i en triangel advarer brukeren om uisolert "farlig spenning" inne i apparatet, eller tilkoblings terminaler som kan gi støt.



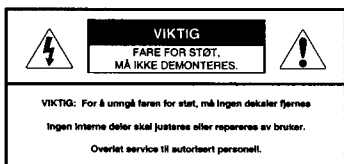
Etter utropstegnet i en triangel følger informasjon som er viktig når det gjelder installasjon, bruk og vedlikehold (service) av apparatet.

ADVARSEL: (WARNING) FOR Å REDUSERE FAREN FOR BRANN ELLER STØT MÅ APPARATET IKKE UTSETTES FOR VANN ELLER FUKTIGHET.

VIKTIG: (CAUTION) Installasjon av apparatet skal foretas av autorisert installatør etter gjeldende forskrifter.



Modifikasjoner og tilleggs informasjon som følger er kun for kvalifiserte installatører eller service personell.



SÄKERHETS INFORMATION

Orden **VARNING** (WARNING) och **OBSERVERA** (CAUTION) vilka används i denna manual och på apparaten, är menade att uppmärksamma viktig säkerhets information. Dessa ord har följande betydelse.

VARNING: (WARNING) Information som uppmärksammar på omständigheter som kan resultera i allvarlig personskada eller skada på egendom om instruktionerna ej följs.

OBSERVERA: (CAUTION) Information som uppmärksammar på instruktioner om hur skada på utrustning eller hur situationer där lättare personskador kan uppstå undviks.

Följande internationellt använda ord och symboler används i handboken och på märkningar på produkten för att uppmärksamma användare på viktiga säkerhets instruktioner.



En blix med pil, innesluten i en triangel, menad att uppmärksamma användare på närvaron av isolerade "farliga spänningar" i apparaten eller på anslutnings kontakter vilka har tillräcklig styrka för att medföra risk för elektrisk stöt.



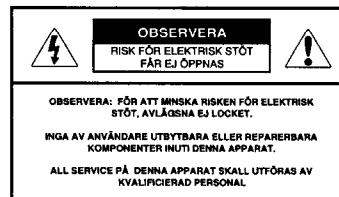
Ett utropstecken, innesluten i en triangel, menad att uppmärksamma användare på viktiga installations, handhavande eller underhålls-instruktioner i medföljande dokumentation.

VARNING: (WARNING) FÖR ATT MINSKA RISKEN FÖR BRAND ELLER ELEKTRISK STÖT, UTSÄTT EJ APPARATEN FÖR FUKT ELLER VÄTSKA.

OBSERVERA: (CAUTION) Installation av denna apparat skall utföras av kvalificerad installatör samt enligt alla gällande lokala bestämmelser.



Eventuella modifierings instruktioner och annan information av teknisk art i denna manual är endast avsedd att användas av kvalificerad installations och service personal.



ΠΛΗΡΟΦΟΡΙΕΣ ΑΣΦΑΛΕΙΑΣ

Οι λέξεις **ΚΙΝΔΥΝΟΣ** (WARNING) και **ΠΡΟΣΟΧΗ** (CAUTION) που αναφέρονται μέσα στο εγχειρίδιο και στη συσκευή, επικεντρώνουν την προσοχή σε σημαντικές πληροφορίες ασφαλείας. Οι λέξεις αυτές έχουν την παρακάτω σημασία.

ΚΙΝΔΥΝΟΣ: (WARNING) Η αναγραφόμενη πληροφορία επιστά την προσοχή σας σε καταστάσεις που θα μπορούσαν να έχουν σαν αποτέλεσμα σοβαρό τραυματισμό ή καταστροφή της ιδιοκτησίας αν οι οδηγίες δεν ακολουθηθούν κατάλληλα.

ΠΡΟΣΟΧΗ: (CAUTION) Η αναγραφόμενη πληροφορία σας καθοδηγεί πώς να προλάβετε καταστροφή του εξοπλισμού ή πώς να αποφύγετε καταστάσεις που θα μπορούσαν να έχουν ως αποτέλεσμα μικροτραυματισμούς αν δεν ακολουθηθούν τα σωστά βήματα.

Στις επιγραφές των προτόπων και στο εγχειρίδιο λειτουργίας, χρησιμοποιούνται τα σιμβόλα αναγνωρισμένα σύμφωνα, των οποίων ο ορισμός δίνεται παρακάτω έτσι ώστε να υπογραμμιστούν τα μηνύματα ασφαλείας.



Η φωτεινή αναλαμπή με σύμβολο το βέλος, μέσα στο τρίγωνο, έχει σκοπό να επιστήσει την προσοχή του χρήστη, στην ύπαρξη μη- μονιμής « επικίνδυνης ισχύος ρεύματος » στο εσωτερικό της συσκευής ή στις άκρες σύνδεσης οι οποίες μπορεί να έχουν αρκετό μέγεθος ώστε να περιέχουν κίνδυνο ηλεκτροπληξίας.



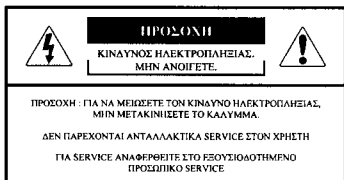
Το επεξηγηματικό σημείο, μέσα στο τρίγωνο, έχει σκοπό να επιστήσει την προσοχή του χρήστη στις σημαντικές οδηγίες εγκατάστασης, λειτουργίας και συντήρησης (service) που περιέχονται στα φυλλάδια που συνοδεύουν την συσκευή.

ΚΙΝΔΥΝΟΣ: (WARNING) Για να αποφύγετε τον κίνδυνο φωτιάς ή ηλεκτροπληξίας, μην εκθέτετε αυτή τη συσκευή σε βροχή ή σε υγρασία.

ΠΡΟΣΟΧΗ: (CAUTION) Η εγκατάσταση αυτής της συσκευής θα πρέπει να γίνει από εξειδικευμένο άτομο και θα πρέπει να προσαρμόζεται σε όλους τους εφαρμοσμούς τοπικούς κώδικες.



Οι τροποποιήσεις και οι προδοτικές πληροφορίες για τον εξοπλισμό, που αναφέρονται σε αυτό το εγχειρίδιο, προορίζονται για χρήση μόνο από εξειδικευμένα στην εγκατάσταση και στο service, άτομα.



INFORMAÇÃO SOBRE SEGURANÇA

As palavras **ADVERTÊNCIA** (WARNING) e **PRECAUÇÃO** (CAUTION) neste manual, e no dispositivo, alertam para importantes informações sobre segurança. Estas palavras significam o seguinte:

ADVERTÊNCIA: Informação relacionada que alerta sobre condições que poderão resultar em lesões sérias ou prejuízo, se as instruções não forem seguidas adequadamente.

PRECAUÇÃO: Informação relacionada que instrui como prevenir danos no equipamento ou como evitar condições que poderão resultar em lesões leves, se os passos não forem seguidos adequadamente.

As etiquetas do produto e do manual de operações podem usar os símbolos internacionalmente reconhecidos definidos abaixo para advertir mensagens de segurança.



símbolo do relâmpago com uma seta, dentro de um triângulo, tem o fim de alertar o usuário a presença de "voltagem perigosa" sem isolamento dentro da caixa isolamento do aparelho ou nos terminais de ligação que podem ter a magnitude suficiente que constitui um risco de choque elétrico.



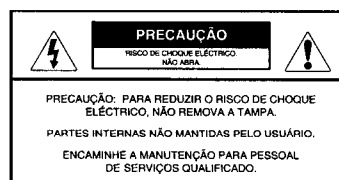
ponto de exclamação, dentro de um triângulo, tem o fim de alertar o usuário sobre instruções importantes de instalação, operação e manutenção (serviços) na literatura que acompanha o aparelho.

ADVERTÊNCIA: PARA REDUZIR O RISCO DE INCÊNDIO OU CHOQUE ELÉCTRICO, NÃO EXPONHA ESTE APARELHO A CHUVA OU HUMIDADE.

PRECAUÇÃO: (CAUTION) A instalação deste aparelho deve ser feita por um profissional qualificado e deve obedecer a todos os códigos locais aplicáveis.



Modificação e informação sobre equipamento adicional citados neste manual são para o uso exclusivo do pessoal qualificado de instalação e manutenção.



有害物质表

Biamp Systems 801、601 与 301 型混音器

部件名称	有毒有害物质或元素					
	Pb (铅)	Hg (汞)	Cd (镉)	Cr+6 (六价铬)	PBB	PBDE
801/601/301 设备	X	○	X	○	○	○
电源变压器	X	○	X	○	○	○
可插拔 Euroblock 连接器	○	○	○	○	○	○
手册和其他书面文档	○	○	○	○	○	○
包装箱和所有包装材料	○	○	○	○	○	○

○: 表示该部件所有均质材料中的这种有毒有害物质低于 SJ/T11363-2006 的限制要求

X: 表示该部件中至少有一种均质材料所含的这种有毒有害物质高于 SJ/T11363-2006 的限制要求。

除限制销售和使用某些危险物质和制剂的欧盟指令 76/769/EEC 的修正指令-欧盟指令 91/338/EEC 所禁止的用途外, 在电触头和 (或) 镀锡所含的均质材料中, 镉及其化合物的含量或许超过 0.01%。

在以下一种或多种物质所含的均质材料中, 铅及其化合物的含量或许超过 0.1%:

- 1) 电子元器件中玻璃内。
- 2) 铅作为合金元素的钢材中, 铅含量可高达 0.35%。
- 3) 铅作为合金元素的铝材中, 铅含量可高达 0.4%。
- 4) 铅作为合金元素的铜材中, 铅含量可高达 4%。
- 5) 高熔点类焊料 (即含铅量 85%以上的铅基焊料) 中。
- 6) 电子陶瓷部件内。
- 7) 由两种以上元素组成、用于连接管脚和微处理器封装、铅含量超过 80%但低于 85%的焊料中。
- 8) 兼容性管脚连接器系统中。
- 9) 倒装芯片封装内半导体芯片及载体之间完成可靠电子连接的焊料中。



在正常使用情况下, 中国环保使用期限为 10 年, 条件是:

- 环境温度为 0-40°C (32-104°F)
- 湿度为 0-95%, 无凝结
- 海拔高度为 0-10,000 英尺
- 空气流通
- 没有水或其他液体进入任何部件
- 电源为 95-265V AC, 50/60Hz
- 部件没有损坏 (损坏部件应立即修理)
- 由工厂授权人员使用批准的材料进行所有维修



EU RoHS COMPLIANT

This Biamp product -- including all attendant cables and accessories supplied by Biamp -- meets all requirements of EU Directives 2002/95/EC of January 27, 2003, and 2005/618/EC of August 18, 2005, the EU RoHS Directives. An EU RoHS Materials Content Declaration document may be obtained at <http://www.biamp.com>